MPS Series 3

MPS-305 Reinforcement Loudspeaker

Designed for sound reinforcement applications requiring absolute minimum size, the ultra-compact MPS-305 delivers full-range performance with very low distortion. The loudspeaker comprises a single 5-inch low-frequency cone driver and 2 by 5 inch horn-loaded piezoelectric high-frequency element.

Frequency Response[1]	70 Hz to 20 kHz ±4 dB
Maximum SPL[2]	
Continuous	102 dB
Peak	112 dB
HF Distribution Pattern	80° horizontal by 60° vertical
Driver Complement	
Low-Frequency	MS-5 5-inch cone driver
High-Frequency	2"x5" horn-loaded piezoelectric
Cabinet Impedance	8 ohms
Enclosure	
Type	0.17 cu. ft. acoustic suspension
Finish	Black textured
Connector	XLR (A-3) or Neutrik SpeakOn™
Grill	Metal screen with black cloth
Mounting Points	⅜"-16 nut plates
Physical Dimensions	6 ¾" W x 10 ½" H x 7" D
Weight	6.6 lbs (3 kg)

Note 1:

Measured at 1 meter on axis, pink noise input, in third-octave bands with half-space loading.

MPS-355 Reinforcement Loudspeaker

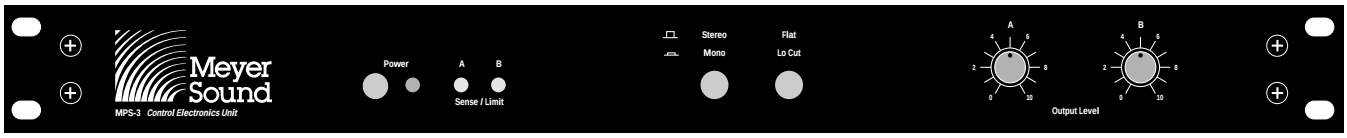
Suitable for a wide range of applications from music playback and delay fill systems to stage monitoring, the MPS-355 features outstanding low-frequency response. Itcomprises two 5-inch low-frequency cone drivers and a 2by5inch horn-loaded piezoelectric high-frequency element.

Frequency Response[1]	60 Hz to 20 kHz ±4 dB
Maximum SPL[2]	
Continuous	108 dB
Peak	118 dB
HF Distribution Pattern	80° horizontal by 60° vertical
Driver Complement	
Low-Frequency	(2) MS-5 5-inch cone driver
High-Frequency	2"x5" horn-loaded piezoelectric
Cabinet Impedance	16 ohms
Enclosure	
Type	0.31 cu. ft. vented
Finish	Black textured
Connector	XLR (A-3) or Neutrik SpeakOn™
Grill	Metal screen with black cloth
Mounting Points	⅜"-16 nut plates
Physical Dimensions	6 ¾" W x 18 " H x 7" D
Weight	11 lbs (5 kg)

Note 2:

"A" weighted noise input, speaker driven by 125 W (8 ohm rating for MPS-305, 16 ohm rating for MPS-355) mono power amplifier.

MPS-3 Control Electronics Unit



MPS Series 3 loudspeakers are designed to operate with the MPS-3 Control Electronics Unit. A two-channel unit operating at line level, the MPS-3 is the final component in the signal chain before the power amplifier.

Optimized for Series 3 loudspeakers and aligned at the factory, the MPS-3 comprises frequency and phase response alignment circuitry, and Meyer Sound's SpeakerSense™ driver protection circuitry, with both peak and RMS signal limiting. Complementary phase equalization in the MPS-3 gives the Series 3 loudspeakers flat frequency response with outstanding phase characteristics.

SpeakerSense protects the Series 3 drivers from damage due to overheating under continuous high power conditions. Through a Sense connection to the power amplifier outputs, this unique circuit continuously monitors the power applied to the loudspeaker, and limits the signal output when the safe operating limits of the loudspeaker are exceeded. Until the onset of overload, the SpeakerSense circuit has no effect on the signal.

Input Type	Active balanced, 24k ohms
Output Type	Push-pull, 200 ohms output Z
Maximum Input/Output Level[1]	
Unbalanced	>+16 dBu
Balanced	>+22 dBu
Hum and Noise[2]	<-85 dBV
Driver Protection Circuitry	RMS and peak limiters
Indicators	
Sense/Limit	Bicolor (grn/red) LEDs
Power	Green LED
Controls	Output Levels. Power, Stereo/
	Mono and Lo Cut switches
Connectors	
Balanced Input/Output	3-pin XLR (A-3) type
Sense	Banana jacks
Power	120/240V AC, 50/60 Hz, 15 watts
Physical Dimensions	19" W x 1 3/4" H x 7 3/4" D
Weight	7 lbs (3.1 kg)

Note 1:
1 kHz, 10k ohm load, <0.1% THD.

Note 2:
"A" weighted, unbalanced.

MPS-305 Architect's and Engineer's Specifications

The ultra-compact reinforcement speaker system shall be a passive 2-way type with a 5-inch low-frequency loudspeaker front mounted in a hardwood plywood enclosure and a high-frequency piezo-electric driver mounted on a 2"x 5" horn. The enclosure shall be fitted with four ⅜"–16 threaded mounting points, and shall operate with a separate Control Electronics Unit.

The speaker system combined with a 125W (8 ohm rating) amplifier shall meet the following performance criteria: Frequency response, 70 Hz to 20 kHz ±4dB measured in half space at 1 meter on axis with pink noise at ⅓ octave resolution; output of 102 dB SPL measured at 1 meter on axis with peaks of 112 dB SPL when driven with "A"-weighted noise. Distribution pattern, 80° H by 60° V.

Speaker enclosure dimensions shall be 6 ¾" W x 10 ½" H x 7" D, weight 6.6 lbs (3 kg).

The speaker enclosure shall be the Meyer Sound MPS-305.

MPS-355 Architect's and Engineer's Specifications

The ultra-compact reinforcement speaker system shall be a passive 3-way type with two 5-inch low-frequency loudspeakers, front mounted in a ducted bass-reflex plywood enclosure with a high-frequency piezo-electric driver mounted on a 2" x 5" horn. The enclosure shall be fitted with four ⅜"–16 threaded mounting points, and shall operate with a separate Control Electronics Unit.

The speaker system combined with a 125W (16 ohm rating) amplifier shall meet the following performance criteria: Frequency response, 60 Hz to 20 kHz ±4dB measured in half space at 1 meter on axis with pink noise at ⅓ octave resolution; output of 108 dB SPL measured at 1 meter on axis with peaks of 118 dB SPL when driven with "A"-weighted noise. Distribution pattern, 80° H by 60° V.

Speaker enclosure dimensions shall be 6¾" W x 18" H x 7" D, weight 11 lbs (5 kg).

The speaker enclosure shall be the Meyer Sound MPS-355.

MPS-3 Architect's and Engineer's Specifications

The Control Electronics Unit shall contain a power supply capable of 120/240V AC 50/60 Hz operation, equalization for amplitude and phase alignment, protection circuitry which activates under high power conditions, RMS limiter to protect the speakers from overheating, active balanced input, push-pull output, and LED indicators for power on and limiters. Total harmonic distortion at +22dBu at the balanced output loaded with 10k Ω shall be less than .1% at 1kHz. The "A"-weighted noise level shall be at least 100 dB below maximum rated output of +22 dBu.

Control Electronics Unit dimensions shall be 19" W x 1 ¾" H x 7 ¾" D, weight 7lbs (3.2 kg).

The Control Electronics Unit shall be the Meyer Sound MPS-3.

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